

WHAT IS CLAIMED IS:

1. A playing apparatus for voice card and audio book for outputting audio data from a voice card including a bar code  
5 indicating a location address of audio data and an audio book including audio book information and location address information of voice data corresponding to each of pages of the voice book, the playing apparatus comprising:

a voice card sensing unit including a photo sensor for  
10 outputting a first signal to sense an insertion of the voice card and a second signal to sense the bar code;

an audio book page sensing unit for sensing the audio book information and the location address information of voice data;

15 a voice card transfer unit driven when the first signal is output from the voice card sensing unit, for transferring the voice card at a prescribed speed;

a memory comprising a voice card information storing unit including voice card data location information corresponding  
20 to the second signal of the voice card output from the voice card sensing unit and audio data corresponding to the voice card data location information, and an audio book information storing unit including audio book information output from the audio book page sensing unit and audio book audio data  
25 location information corresponding to page address information

of the audio book;

a digital information processing unit for decoding the data stored in the memory into an analog signal;

a speaker for outputting the analog signal from the  
5 digital information processing unit; and

a MCU for controlling the digital information processing unit and the speaker to cause the voice card transfer unit to be driven according to signals from the voice card sensing unit and the audio book page sensing unit, determine a data  
10 address of the voice card, a kind of the audio book and a page address of the audio book, and cause the voice card data and the audio book data to be decoded in the digital information processing unit and then to be output through the speaker, and for controlling such that corresponding audio book data are  
15 stored when the voice card insertion signal is input during the output of the audio book data, and then the stored audio book data is output after the data corresponding to the inserted voice card are output.

20 2. The playing apparatus according to claim 1, wherein the address information of the voice card stored in the memory consists of a track address and an index address, the track address is defined based on the number of languages used in the voice card, and the index address, which is a low level  
25 address of the track address, is defined based on the number

of characters or symbols used in the voice card and specifies a location on which data of the voice card are stored.

3. The playing apparatus according to claim 1, wherein  
5 the audio book page sensing unit outputs a page sensing signal by using one selected from a group consisting of a contact switch, an optical sensor, a lead sensor, a hole sensor, and an electronic pen.

10 4. The playing apparatus according to claim 1, wherein the audio book includes a hole sensor and an electronic pen identification mark, and the MCU determines a kind of the audio book based on a hole sensor sensing signal output from the audio book page sensing unit and determines page location  
15 information based on an electronic pen sensing signal.

5. The playing apparatus according to claim 1, further comprising a buffer for storing the audio book data when the voice card insertion signal is input during the output of the  
20 audio book data.

6. A method for controlling a playing apparatus for voice card and audio book for outputting audio data from a voice card and an audio book, the voice card including a bar code  
25 indicating a location address of audio data, the method

comprising the steps of:

a) determining whether a sensing signal is input from an audio book page sensing unit;

b) reading the sensing signal and determining an address  
5 of the audio book and page corresponding to the sensing signal when it is determined in the step a) that the sensing signal is input;

c) applying data of the audio book corresponding to the address determined in the step b) to a digital information  
10 processing unit;

d) outputting the audio data decoded in the digital information processing unit through a speaker;

e) determining whether a voice card insertion signal is input during the output of the audio data;

f) stopping the output of the audio data of the audio  
15 book and storing remaining decoded data when it is determined that the voice card insertion signal is input;

g) driving a card transfer unit;

h) reading a signal input from a voice card sensing unit  
20 and determining a bar code and an address of voice card audio data corresponding to the bar code, based on the signal;

i) applying the voice card audio data corresponding to the address determined in the step h);

j) outputting the data decoded in the digital information  
25 processing unit through the speaker;

k) determining whether the output of the data decoded in the digital information processing unit is completed; and

l) outputting the data of the audio book stored in step f) through the speaker when it is determined in the step k) that the output of the data decoded in the digital information processing unit is completed.

7. The method according to claim 6, wherein the remaining decoded data stored in the step f) are stored in a buffer.

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